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JUN 07 2002

#15

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/548,409B

TIME: 16:29:36

Input Set : A:\17282CIPSEQLIST.TXT

Output Set: N:\CRF3\05292002\I548409B.raw

p.6

ENTERED

4 <110> APPLICANT: Steward, Lance E.
5 Aoki, K. Roger
6 Sachs, George
9 <120> TITLE OF INVENTION: Methods and Compositions for the
10 Treatment of Pancreatitis
12 <130> FILE REFERENCE: 17282CIP(AP)
14 <140> CURRENT APPLICATION NUMBER: 09/548,409B
15 <141> CURRENT FILING DATE: 2000-04-13
17 <150> PRIOR APPLICATION NUMBER: US 09/288,326
18 <151> PRIOR FILING DATE: 1999-04-08
20 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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25 <211> LENGTH: 129
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
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32 Ser Gly Val Cys Leu Cys Val Leu Met Ala Val Leu Ala Ala Gly Ala
33 20 25 30
34 Leu Thr Gln Pro Val Pro Pro Ala Asp Pro Ala Gly Ser Gly Leu Gln
35 35 40 45
36 Arg Ala Glu Glu Ala Pro Arg Arg Gln Leu Arg Val Ser Gln Arg Thr
37 50 55 60
38 Asp Gly Glu Ser Arg Ala His Leu Gly Ala Leu Leu Ala Arg Tyr Ile
39 65 70 75 80
40 Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met Ser Ile Val Lys Asn
41 85 90 95
42 Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser Asp Arg Asp Tyr Met
43 100 105 110
44 Gly Trp Met Asp Phe Gly Arg Arg Ser Ala Glu Glu Tyr Glu Tyr Pro
45 115 120 125
46 Ser
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 58
51 <212> TYPE: PRT
52 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 2
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56 1 5 10 15
57 Leu Ala Arg Tyr Ile Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met
58 20 25 30

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59 Ser Ile Val Lys Asn Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser
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61 Asp Arg Asp Tyr Met Gly Trp Met Asp Phe
62      50      55
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 39
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
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70 Tyr Ile Gln Gln Ala Arg Lys Ala Pro Ser Gly Arg Met Ser Ile Val
71 1      5      10      15
72 Lys Asn Leu Gln Asn Leu Asp Pro Ser His Arg Ile Ser Asp Arg Asp
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74 Tyr Met Gly Trp Met Asp Phe
75      35
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 33
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 4
83 Lys Ala Pro Ser Gly Arg Met Ser Ile Val Lys Asn Leu Gln Asn Leu
84 1      5      10      15
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86      20      25      30
87 Phe
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91 <211> LENGTH: 12
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 5
96 Ile Ser Asp Arg Asp Tyr Met Gly Trp Met Asp Phe
97 1      5      10
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100 <211> LENGTH: 9
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108 <210> SEQ ID NO: 7
109 <211> LENGTH: 448
110 <212> TYPE: PRT
111 <213> ORGANISM: Clostridium botulinum
113 <400> SEQUENCE: 7
114 Met Pro Phe Val Asn Lys Gln Phe Asn Tyr Lys Asp Pro Val Asn Gly
115 1      5      10      15
116 Val Asp Ile Ala Tyr Ile Lys Ile Pro Asn Ala Gly Gln Met Gln Pro
117      20      25      30
118 Val Lys Ala Phe Lys Ile His Asn Lys Ile Trp Val Ile Pro Glu Arg

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119		35		40		45											
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121		50					55					60					
122	Ala	Lys	Gln	Val	Pro	Val	Ser	Tyr	Tyr	Asp	Ser	Thr	Tyr	Leu	Ser	Thr	
123	65					70				75					80		
124	Asp	Asn	Glu	Lys	Asp	Asn	Tyr	Leu	Lys	Gly	Val	Thr	Lys	Leu	Phe	Glu	
125					85					90					95		
126	Arg	Ile	Tyr	Ser	Thr	Asp	Leu	Gly	Arg	Met	Leu	Leu	Thr	Ser	Ile	Val	
127				100					105					110			
128	Arg	Gly	Ile	Pro	Phe	Trp	Gly	Gly	Ser	Thr	Ile	Asp	Thr	Glu	Leu	Lys	
129		115					120					125					
130	Val	Ile	Asp	Thr	Asn	Cys	Ile	Asn	Val	Ile	Gln	Pro	Asp	Gly	Ser	Tyr	
131		130					135					140					
132	Arg	Ser	Glu	Glu	Leu	Asn	Leu	Val	Ile	Ile	Gly	Pro	Ser	Ala	Asp	Ile	
133	145				150					155					160		
134	Ile	Gln	Phe	Glu	Cys	Lys	Ser	Phe	Gly	His	Glu	Val	Leu	Asn	Leu	Thr	
135				165					170					175			
136	Arg	Asn	Gly	Tyr	Gly	Ser	Thr	Gln	Tyr	Ile	Arg	Phe	Ser	Pro	Asp	Phe	
137		180						185					190				
138	Thr	Phe	Gly	Phe	Glu	Glu	Ser	Leu	Glu	Val	Asp	Thr	Asn	Pro	Leu	Leu	
139		195					200					205					
140	Gly	Ala	Gly	Lys	Phe	Ala	Thr	Asp	Pro	Ala	Val	Thr	Leu	Ala	His	Glu	
141		210					215					220					
142	Leu	Ile	His	Ala	Gly	His	Arg	Leu	Tyr	Gly	Ile	Ala	Ile	Asn	Pro	Asn	
143	225				230					235					240		
144	Arg	Val	Phe	Lys	Val	Asn	Thr	Asn	Ala	Tyr	Tyr	Glu	Met	Ser	Gly	Leu	
145				245					250					255			
146	Glu	Val	Ser	Phe	Glu	Glu	Leu	Arg	Thr	Phe	Gly	Gly	His	Asp	Ala	Lys	
147		260						265					270				
148	Phe	Ile	Asp	Ser	Leu	Gln	Glu	Asn	Glu	Phe	Arg	Leu	Tyr	Tyr	Tyr	Asn	
149		275					280					285					
150	Lys	Phe	Lys	Asp	Ile	Ala	Ser	Thr	Leu	Asn	Lys	Ala	Lys	Ser	Ile	Val	
151		290					295					300					
152	Gly	Thr	Thr	Ala	Ser	Leu	Gln	Tyr	Met	Lys	Asn	Val	Phe	Lys	Glu	Lys	
153	305				310					315					320		
154	Tyr	Leu	Leu	Ser	Glu	Asp	Thr	Ser	Gly	Lys	Phe	Ser	Val	Asp	Lys	Leu	
155				325					330					335			
156	Lys	Phe	Asp	Lys	Leu	Tyr	Lys	Met	Leu	Thr	Glu	Ile	Tyr	Thr	Glu	Asp	
157		340						345					350				
158	Asn	Phe	Val	Lys	Phe	Phe	Lys	Val	Leu	Asn	Arg	Lys	Thr	Tyr	Leu	Asn	
159		355					360					365					
160	Phe	Asp	Lys	Ala	Val	Phe	Lys	Ile	Asn	Ile	Val	Pro	Lys	Val	Asn	Tyr	
161		370					375					380					
162	Thr	Ile	Tyr	Asp	Gly	Phe	Asn	Leu	Arg	Asn	Thr	Asn	Leu	Ala	Ala	Asn	
163	385				390					395					400		
164	Phe	Asn	Gly	Gln	Asn	Thr	Glu	Ile	Asn	Asn	Met	Asn	Phe	Thr	Lys	Leu	
165				405					410					415			
166	Lys	Asn	Phe	Thr	Gly	Leu	Phe	Glu	Phe	Tyr	Lys	Leu	Leu	Cys	Val	Arg	
167			420					425					430				

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168 Gly Ile Ile Thr Ser Lys Thr Lys Ser Leu Asp Lys Gly Tyr Asn Lys
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171 <210> SEQ ID NO: 8
172 <211> LENGTH: 423
173 <212> TYPE: PRT
174 <213> ORGANISM: Clostridium botulinum
176 <400> SEQUENCE: 8
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178   1           5                      10                      15
179 Ser Pro Ser Glu Asp Asn Phe Thr Asn Asp Leu Asn Lys Gly Glu Glu
180           20                      25                      30
181 Ile Thr Ser Asp Thr Asn Ile Glu Ala Ala Glu Glu Asn Ile Ser Leu
182   35           40                      45
183 Asp Leu Ile Gln Gln Tyr Tyr Leu Thr Phe Asn Phe Asp Asn Glu Pro
184   50           55                      60
185 Glu Asn Ile Ser Ile Glu Asn Leu Ser Ser Asp Ile Ile Gly Gln Leu
186   65           70                      75                      80
187 Glu Leu Met Pro Asn Ile Glu Arg Phe Pro Asn Gly Lys Lys Tyr Glu
188           85                      90                      95
189 Leu Asp Lys Tyr Thr Met Phe His Tyr Leu Arg Ala Gln Glu Phe Glu
190           100                     105                     110
191 His Gly Lys Ser Arg Ile Ala Leu Thr Asn Ser Val Asn Glu Ala Leu
192           115                     120                     125
193 Leu Asn Pro Ser Arg Val Tyr Thr Phe Phe Ser Ser Asp Tyr Val Lys
194           130                     135                     140
195 Lys Val Asn Lys Ala Thr Glu Ala Ala Met Phe Leu Gly Trp Val Glu
196           145                     150                     155                     160
197 Gln Leu Val Tyr Asp Phe Thr Asp Glu Thr Ser Glu Val Ser Thr Thr
198           165                     170                     175
199 Asp Lys Ile Ala Asp Ile Thr Ile Ile Ile Pro Tyr Ile Gly Pro Ala
200           180                     185                     190
201 Leu Asn Ile Gly Asn Met Leu Tyr Lys Asp Asp Phe Val Gly Ala Leu
202           195                     200                     205
203 Ile Phe Ser Gly Ala Val Ile Leu Leu Glu Phe Ile Pro Glu Ile Ala
204           210                     215                     220
205 Ile Pro Val Leu Gly Thr Phe Ala Leu Val Ser Tyr Ile Ala Asn Lys
206           225                     230                     235                     240
207 Val Leu Thr Val Gln Thr Ile Asp Asn Ala Leu Ser Lys Arg Asn Glu
208           245                     250                     255
209 Lys Trp Asp Glu Val Tyr Lys Tyr Ile Val Thr Asn Trp Leu Ala Lys
210           260                     265                     270
211 Val Asn Thr Gln Ile Asp Leu Ile Arg Lys Lys Met Lys Glu Ala Leu
212           275                     280                     285
213 Glu Asn Gln Ala Glu Ala Thr Lys Ala Ile Ile Asn Tyr Gln Tyr Asn
214           290                     295                     300
215 Gln Tyr Thr Glu Glu Glu Lys Asn Asn Ile Asn Phe Asn Ile Asp Asp
216           305                     310                     315                     320
217 Leu Ser Ser Lys Leu Asn Glu Ser Ile Asn Lys Ala Met Ile Asn Ile
218           325                     330                     335

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219 Asn Lys Phe Leu Asn Gln Cys Ser Val Ser Tyr Leu Met Asn Ser Met
220           340           345           350
221 Ile Pro Tyr Gly Val Lys Arg Leu Glu Asp Phe Asp Ala Ser Leu Lys
222           355           360           365
223 Asp Ala Leu Leu Lys Tyr Ile Tyr Asp Asn Arg Gly Thr Leu Ile Gly
224           370           375           380
225 Gln Val Asp Arg Leu Lys Asp Lys Val Asn Asn Thr Leu Ser Thr Asp
226           385           390           395           400
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232 <210> SEQ ID NO: 9
233 <211> LENGTH: 382
234 <212> TYPE: PRT
235 <213> ORGANISM: Clostridium botulinum
237 <400> SEQUENCE: 9
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239   1           5           10           15
240 Ala Ile Val Tyr Asn Ser Met Tyr Glu Asn Phe Ser Thr Ser Phe Trp
241           20           25           30
242 Ile Arg Ile Pro Lys Tyr Phe Asn Ser Ile Ser Leu Asn Asn Glu Tyr
243           35           40           45
244 Thr Ile Ile Asn Cys Met Glu Asn Asn Ser Gly Trp Lys Val Ser Leu
245           50           55           60
246 Asn Tyr Gly Glu Ile Ile Trp Thr Leu Gln Asp Thr Gln Glu Ile Lys
247           65           70           75           80
248 Gln Arg Val Val Phe Lys Tyr Ser Gln Met Ile Asn Ile Ser Asp Tyr
249           85           90           95
250 Ile Asn Arg Trp Ile Phe Val Thr Ile Thr Asn Asn Arg Leu Asn Asn
251           100          105          110
252 Ser Lys Ile Tyr Ile Asn Gly Arg Leu Ile Asp Gln Lys Pro Ile Ser
253           115          120          125
254 Asn Leu Gly Asn Ile His Ala Ser Asn Asn Ile Met Phe Lys Leu Asp
255           130          135          140
256 Gly Cys Arg Asp Thr His Arg Tyr Ile Trp Ile Lys Tyr Phe Asn Leu
257           145          150          155          160
258 Phe Asp Lys Glu Leu Asn Glu Lys Glu Ile Lys Asp Leu Tyr Asp Asn
259           165          170          175
260 Gln Ser Asn Ser Gly Ile Leu Lys Asp Phe Trp Gly Asp Tyr Leu Gln
261           180          185          190
262 Tyr Asp Lys Pro Tyr Tyr Met Leu Asn Leu Tyr Asp Pro Asn Lys Tyr
263           195          200          205
264 Val Asp Val Asn Asn Val Gly Ile Arg Gly Tyr Met Tyr Leu Lys Gly
265           210          215          220
266 Pro Arg Gly Ser Val Met Thr Thr Asn Ile Tyr Leu Asn Ser Ser Leu
267           225          230          235          240
268 Tyr Arg Gly Thr Lys Phe Ile Ile Lys Lys Tyr Ala Ser Gly Asn Lys
269           245          250          255

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 3,4